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You can read the recommendations in the user guide, the technical guide or the installation guide for PANASONIC DMC-TZ20. You'll find the answers to all your questions on the PANASONIC DMC-TZ20 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual PANASONIC DMC-TZ20
User guide PANASONIC DMC-TZ20
Operating instructions PANASONIC DMC-TZ20
Instructions for use PANASONIC DMC-TZ20
Instruction manual PANASONIC DMC-TZ20

Panasonic[®]

**Operating Instructions
for advanced features**

Digital Camera

Model No. **DMC-TZ20**



Before use, please read these instructions completely.



VQT3G94



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.... 115 Camera handling *Keep the camera away from excessive vibration, force, or pressure.*

Avoid using the camera under the following conditions, which may damage the lens, LCD monitor, or camera body. This may also cause the camera to malfunction or prevent recording. · Dropping or hitting the camera against a hard surface · Sitting down with the camera in your pants pocket or forcing it into a full bag · Adding accessories to the camera strap · Pushing with excessive force on the lens or LCD monitor The camera is not dust resistant, splash resistant, or waterproof. Avoid using the camera in places with excessive dust or sand, or where water can come into contact with the camera. Avoid using the camera under the following conditions, which present a risk that sand, water, or foreign material may enter the camera through the lens or openings around buttons. Be especially careful, because these conditions may damage the camera and such damage may not be repairable. · In extremely dusty or sandy places · In the rain or by the shore, where the camera may be exposed to water Connecting with other devices Viewing on TV screen

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(Current as of December 2010) · Some countries or regions may regulate the use of GPS or related technology. Because this camera has a GPS function, before taking it into another country, check with the embassy or your travel agency whether there are any restrictions on bringing cameras with a GPS function. No compensation for missed shots Carefully observe copyright laws Also refer to "Usage cautions and notes" (141) 6 VQT3G94 VQT3G94 7 Standard Accessories Check that all the accessories are supplied before using the camera. Names of parts Mode dial Flash (52) Self-timer indicator (56)/AF Assist Lamp (93) Lens barrel Lens (5, 143) The accessories and their shape will differ depending on the country or area where the camera was purchased.

For details on the accessories, refer to Basic Operating Instructions.

Battery Pack is indicated as battery pack or battery in the text. Battery Charger is indicated as battery charger or charger in the text. Please dispose of all packaging appropriately. Keep small parts in a safe place out of the reach of children. Optional accessories · Cards are optional.



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You can record or play back pictures on the built-in memory when you are not using a card. (14) · Consult the dealer or your nearest Service Centre if you lose the supplied accessories. (You can purchase the accessories separately.) GPS status indicator (78) Zoom lever Motion picture button Camera ON/OFF switch Shutter button We recommend using the supplied hand strap to avoid dropping the camera. GPS antenna (75) Speaker (43) Microphone (21) LCD monitor (43, 130) REC/PLAY switch (20) [EXPOSURE] button (58) Cursor button [DISP.] button HDMI socket (117, 118) [Q.MENU]/[/] button [AV OUT/DIGITAL] socket (116, 121, 127) Card/Battery door (12) Tripod receptacle (143) Release lever (12) DC coupler cover (13) The illustrations and screens in this manual may differ from the actual product. How to operate the camera (16) 8 VQT3G94 VQT3G94 9 Charging battery Always charge before first use! (battery shipped uncharged) About batteries that you can use with this unit It has been found that counterfeit battery packs which look very similar to the genuine products are made available to purchase in some markets. Some of these battery packs are not adequately protected with internal protection to meet the requirements of appropriate safety standards. There is a possibility that these battery packs may lead to fire or explosion.

Please be advised that we are not liable for any accident or failure occurring as a result of use of a counterfeit battery pack. To ensure that safe products are used we recommend that a genuine Panasonic battery pack is used. · Use the dedicated charger and battery. · The camera has a function for distinguishing batteries which can be used safely. The dedicated battery supports this function. The only batteries suitable for use with this unit are genuine Panasonic products and batteries manufactured by other companies and certified by Panasonic. (Batteries which do not support this function cannot be used). Panasonic cannot in any way guarantee the quality, performance or safety of batteries which have been manufactured by other companies and are not genuine Panasonic products. Guidelines for number of recordable pictures and operating time The number of recordable pictures or available operating time may vary according to surrounding environment and usage conditions. Figures may be reduced if flash, zoom, or other functions are used frequently, or in colder climates.

Recording still pictures Number of recordable pictures Recording time Approx. 260 pictures Approx. 130 min By CIPA standard Recording conditions by CIPA standard · CIPA is an abbreviation of [Camera & Imaging Products Association]. · [Program AE] Mode · [GPS Setting] is set to [OFF] · Temperature: 23 °C/Humidity: 50 %RH when LCD monitor is on. · Using a Panasonic SD Memory Card (32 MB).

· Using the supplied battery. Insert the battery terminals and attach the battery to the charger · Starting recording 30 seconds after the camera is turned on. (When the Optical Image Stabilizer function is set to [ON].) · Recording once every 30 seconds with full flash every second recording. · Rotating the zoom lever from Tele to Wide or vice versa in every recording.

· Turning the camera off every 10 recordings and leaving it until the temperature of the battery decreases. Number reduced if intervals are longer e.g. to approx. one quarter for 2-minute intervals under the above conditions. Recording motion pictures [Rec Quality] Available recording time] Actual available recording time2 [AVCHD] [FSH] About 70 minutes About 35 minutes [Motion JPEG] [HD] About 85 minutes About 40 minutes Connect the charger to the electrical outlet Plug-in type Battery Inlet type Charging light ([CHARGE]) On: Charging in progress (approx. 130 min. if fully depleted) Off: Charging complete If light is flashing: · Charging may take longer than normal if battery temperature is too high or too low (charging may not be completed). · Battery/charger connector is dirty. Clean with a dry cloth.

Recording conditions 1 Motion pictures can be recorded continuously for up to 29 minutes 59 seconds. Also, motion · Temperature 23 °C, humidity 50 %RH · [GPS Setting] is set to [OFF] Charger (model-specific) · The AC cable does not fit entirely into the AC input terminal. A gap will remain. Viewing pictures picture recorded continuously in [Motion JPEG] is up to 2 GB. (Example: [7 m 40 s] with [HD]) Remaining time for continuous recording is displayed on the screen. 2 The time you can actually record when repeatedly turning the power on and off, starting and stopping recording and using zoom. Playback time About 210 minutes Charge the battery with the charger indoors (10 °C - 30 °C). Detach the battery after charging is completed The battery charger is in the standby condition when the AC power is supplied. The primary circuit is always "live" as long as the battery charger is connected to an electrical outlet.

VQT3G94 10 VQT3G94 11 Inserting and removing the card (optional)/ the battery Lever Set the camera ON/OFF switch to OFF Slide to the [OPEN] position and open the lid Release lever Using the AC adaptor (optional) and DC coupler (optional) instead of the battery By using the AC adaptor (optional) and DC coupler (optional), you can record and play back without worrying about the remaining battery charge.

The optional DC coupler can only be used with the designated Panasonic AC adaptor. Insert DC coupler instead of battery (12) Do not touch terminal [OPEN] [LOCK] Completely insert battery and card · Battery: Insert all the way firmly until a locking sound is heard, and check that the lever is hooked over the battery. · Memory card: Push in until it clicks. DC IN socket DC coupler Open DC coupler cover · If difficult to open, with the card/ battery door open, press the DC coupler cover from the inside to open it. Charged battery (check orientation) Card (check orientation: terminals face LCD) Close lid Slide to the [LOCK] position.

Plug AC adaptor into power outlet To remove · To remove battery: move lever in direction of arrow. Lever · To remove card: press down in centre. DC coupler cover AC adaptor Align the marks to connect Connect AC adaptor to DC IN socket of DC coupler Always use genuine Panasonic batteries. If you use other batteries, we cannot guarantee the quality of this product. Remove battery from camera after use.

Always use a genuine Panasonic AC adaptor (optional). Use the AC adaptor and DC coupler specifically for this camera. Using other adaptors It may not be possible to install camera on a tripod or unipod when the DC coupler is When the AC adaptor is connected, always remove the AC adaptor when opening the Remove the AC adaptor and DC coupler when not in use and close the DC coupler Also read the AC adaptor and DC coupler operating instructions.



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VQT3G94 or couplers could cause camera failure. · Keep the battery in a plastic bag, making sure that it is kept away from metallic objects (such as clips) when carrying or storing the battery. To remove the card or battery, turn the camera off and wait until the LUMIX indicator on the LCD monitor goes off. (Failure to wait may cause the camera to malfunction and may damage the card or recorded data.) Keep the Memory Card out of reach of children to prevent swallowing. connected, depending on the type of tripod or unipod. card/battery door.

cover. 12 VQT3G94 13 Inserting and removing the card (optional)/ the battery (Continued) Picture save destination (cards and built-in memory) Built-in memory (approx. 18 MB) Remaining battery and memory capacity Remaining battery (only when using battery) (flashes red) If the battery mark flashes red, recharge or replace battery. Notes · Using a card of SD speed "Class 4" or above is recommended for recording motion pictures in [AVCHD]. Using a card of SD speed "Class 6" or above is recommended for recording motion pictures in "MOTION JPEG". · Can be used with devices compatible with the respective formats. · Before using SDXC Memory Cards, check that your computer and other devices support this type of card.
<http://panasonic.net/avc/sdcard/information/SDXC.html> · Only the cards listed on the left with the given capacities are supported.

Estimated remaining pictures or recording time capacity (press [DISP.] button to switch display) Displayed when no card is inserted (pictures will be saved to built-in memory) Compatible memory cards (optional) Type of Card SD Memory Cards SDHC Memory Cards SDXC Memory Cards Capacity 8 MB 2 GB 4 GB 32 GB 48 GB, 64 GB Pictures may be copied between cards and the built-in memory. (115) The access time for the built-in memory may be longer than the access time for a card. The following SD standard-based cards (Panasonic brand recommended) When in operation (Card) or (Built-in memory) are illuminated red. While the light remains lit, an operation is taking place, such as picture writing, reading, deletion or formatting.

While the light is lit, do not turn off the power or remove battery, card, AC adaptor (optional) or DC coupler (optional), as this can cause data loss or damage. Do not subject the camera to vibrations, impact, or static electricity. Should any of these cause camera operation to be terminated, attempt to perform the operation again. Recording capacity guidelines (pictures/recording time) The number of pictures you can take and the recording time vary in proportion to card capacity (and depending on recording conditions and type of card). If you make Web upload settings, the recording picture capacity and the recording time capacity of the card may be reduced.

(105) Recording picture capacity (still pictures) [Picture Size] 14M 5M 0.3M Built-in memory 2 5 99 2 GB 330 650 10050 4 GB 670 1300 19940 16 GB 2740 5300 81340 SD speed class refers to a specification for sustained write speeds. Confirm the SD speed by checking the card label or other card related materials. (Example) Please reformat the card with this camera if it has already been formatted with a computer or another device. (48) If the write-protect switch is set to "LOCK", the card cannot be used to record or delete pictures, and it cannot be formatted. It is recommended that you copy important pictures to your computer (as electromagnetic waves, static electricity, or faults may cause data to be damaged). Latest information:

<http://panasonic.jp/support/global/cs/dsc/> (This Site is English only.) Recording time capacity (motion pictures) Switch (LOCK) Built-in memory · When the number of recordable pictures exceeds 99,999, "+99999" is displayed. When the [AVCHD] recording mode is used 2 GB 14 min 4 GB 29 min 16 GB 2 h 4 min When the [Motion JPEG] recording mode is used [Rec Quality] Built-in memory 2 GB 4 GB 16 GB HD 7 min 40 s 15 min 40 s 1 h 6 min VGA 20 min 41 min 2 h 51 min QVGA 32 s 55 min 30 s 1 h 53 min 7 h 55 min · Motion pictures can be recorded continuously for up to 29 minutes 59 seconds.

Also, motion picture recorded continuously in [Motion JPEG] is up to 2 GB. (Example: [7 m 40 s] with [HD]) To record more than 29 minutes 59 seconds or 2 GB, press the motion picture button again. (Remaining time for continuous recording is displayed on the screen.) The time displayed in the table is the total time. 14 VQT3G94 VQT3G94 15 How to operate the camera Mode dial Use this to select the recording mode. Use this to focus and record still pictures.

Operate this when zooming in on a distant subject to record it larger. Record motion pictures. Touch operations This camera's touch panel senses pressure that is applied to the screen. To "touch" is to press the touch panel and then pull the finger back again.

Shutter button Zoom lever Touch To "drag" is to touch and slide your finger across the touch panel surface. Drag Motion picture button Camera ON/OFF switch REC/PLAY switch Use this to turn the camera's power on and off. Use this to select the recording mode or playback mode. Operate this when setting the shutter speed or aperture value. (Only in the mode) Use these for menu operations and for calling up the recording functions listed below.

: Exposure Compensation, Auto Bracket etc. : Macro Mode etc. : Self-timer : Flash · In this manual, the button that is used is indicated by. Use this to display the menus, enter the settings, etc. In the recording mode: Quick menu is displayed.

In the playback mode: Pictures are deleted. During menu operations: The previous screen is restored. Use this to change display. You can operate the camera using the touch panel on the LCD screen. (17) Touching is used to select icons or pictures, among other actions. · Touch an icon near its centre. If multiple icons are touched simultaneously, the camera may not operate normally. Dragging (sliding your finger across the screen) is used to scroll the pictures or change the range of the pictures displayed. [EXPOSURE] button Cursor button If the type of sheet to protect LCD screens that are available on the market is to be [MENU/SET] [Q.MENU]/[/] button used, observe the precautions that are contained with the sheet.

(Some types of protective sheets may impair the screen's visual recognition and ease of operation.) If the camera is used with a protective sheet available on the market attached to its screen or if the screen is not very responsive, touch the screen with a little more pressure. If your hand is pressed against the touch panel when holding the camera, the touch panel will not work properly. Do not press on the LCD monitor with hard pointed tips, such as ball point pens. Do not press the touch panel with your fingernails.



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Clean the LCD monitor with a soft dry cloth if there are fingerprints or other kinds of dirt on it. For details of the icons that appear on the touch panel, refer to "List of LCD monitor displays" (130). Stylus pen [DISP.] button Touch Panel The stylus pen (supplied) comes in handy when doing the kinds of jobs that require close or careful operation and your fingertips are too large to perform the operations easily. · Do not use a pen other than the pen supplied. · Keep the stylus pen out of the reach of infants and small children. · Do not place the stylus pen on the LCD monitor when storing. LCD monitor may break when the stylus pen is pressed strongly against the LCD monitor. 16 VQT3G94 VQT3G94 17 Setting the clock Set REC/PLAY switch to before turning on the power. (The clock is not set when the camera is shipped.

) Turn on the power The power is turned on. If the language select screen is not displayed, proceed to step . Press to select [Yes] and press [MENU/SET] if automatically correcting time of day using the GPS function · To manually set date and time select [No]. When [Please set the home area] is displayed, press [MENU/SET] Press to set your home area and press [MENU/SET] City or area name Current time Press [MENU/SET] while the message is displayed Press to select the language, and press [MENU/SET] · The [Please set the clock] message appears. (This message does not appear in Playback Mode.

) REC/PLAY switch The current time and home area are set. · [GPS Setting] turns [ON]. Press [MENU/SET] Press to select the items (year, month, day, hour, minute, display order or time display format), and press to set Difference from GMT (Greenwich Mean Time) To change time setting When resetting date and time, select [Clock Set] from the [Setup] menu. · Clock settings will be saved for approx. 3 months even after battery is removed, provided a fully-charged battery was installed in the camera for 24 hours beforehand. Select [Clock Set] from the [Rec] menu or [Setup] menu (42) · To cancel Press [/] button. Set the date and time (Perform steps - . (18)) Press [MENU/SET] Press [MENU/SET] · To return to the previous screen, press [/] button. Failure to set the date and time will cause the date/time to be improperly printed when After the time has been set, the date can be printed correctly even if the date is not displayed on the camera screen. printing pictures at a digital photo centre or when using [Date Stamp] or [Text Stamp].

18 VQT3G94 VQT3G94 19 Sequence of operations Turn on the power 1 Taking still pictures Aim the camera and shoot Press the shutter button halfway to focus Press and hold the shutter button to take the picture Press the motion picture button to start recording Press the motion picture button again to finish recording Motion picture button Set to Recording motion pictures 2 4 Set to the desired Recording Mode Microphone Shutter button Holding the camera Align the mode dial correctly to the mode that you want to use. · Stand with your arms close to your body and with your legs apart. Flash · Do not touch the lens. · Do not block the microphone when recording motion pictures. · Do not block the flash or the lamp. Do not look at it from close range. · Make sure that the camera does not move at the moment the shutter button is pressed. We recommend using the supplied hand strap to avoid dropping the camera. AF Assist Lamp [Intelligent Auto] Mode [Program AE] Mode Take pictures with automatic settings. (26) Record pictures with your own settings.

(22) Determine aperture, then record pictures. (58) Determine shutter speed, then record pictures. (58) Determine aperture and shutter speed, then record pictures. (59) Record pictures using pre-registered settings. (60) Record 3D still pictures. (69) Take pictures according to scene. (61) Take pictures in frequently-used Scene Modes. (62) Set to 3 5 [Aperture-Priority] Mode [Shutter-Priority] Mode [Manual Exposure] Mode [Custom] Mode [3D Photo Mode] [Scene Mode] [My Scene Mode] 6 View pictures (32) Turn off the power 7 Scrolling to the next picture: Drag your finger across the screen from right to left. Returning to the previous picture: Drag your finger across the screen from left to right. 20 VQT3G94 VQT3G94 21 Taking pictures with your own settings [Program AE] Mode Recording Mode: Using the [Rec] menu to change settings and set up your own recording environment.

How to adjust focus Useful when subject is not in centre of picture. Set to ([Program AE] Mode) First adjust focus according to subject Align the AF area with the subject Focus display (When focus is aligned: illuminated When focus is not aligned: flashing) AF area (When focus is aligned: green When focus is not aligned: red) Hold down halfway Take a picture Return to desired composition Press halfway (press lightly to focus) Press fully (press the button all the way to record) Subjects/environments which may Press fully Changing recording information display Press the [DISP.] button. AF area make focusing difficult: · Fast-moving or extremely bright objects, or objects with no colour contrast. · Taking pictures through glass or near objects emitting light. In dark, or with significant jitter. · When too close to object or when taking pictures of both distant and close objects together in the same picture. If a warning is displayed about jitter, use [Stabilizer], a If aperture and shutter speed are shown in red, you do not have appropriate exposure. You should either use the flash, change [Sensitivity] settings or set [Min. Shtr Speed] to a slower speed.

tripod, or [Selftimer]. Jitter alert display The focus display flashes and beep sounds when focus is not Focus display Aperture value Shutter speed aligned. Use the focus range displayed in red as a reference. Even if the focus display is lit, the camera may be unable to bring the subject into focus if it is out of range. AF area is displayed larger in the following cases: · When using Digital Zoom · When focus is difficult to align for a subject in a dark scene Focus range VQT3G94 22 VQT3G94 23 Touching the screen and recording (Touch Shutter function) Recording Mode: This function enables you to focus and record still pictures simply by touching the subjects that appear on the screen. Touching the screen and adjusting the focus and exposure (Touch AF/AE function) Recording Mode: This function enables the focus and exposure to be set when you touch the subject displayed on the screen. Touch on the screen · The icon changes to , and you can now proceed with touch shutter recording. Touch the place where you want to set the focus and exposure · When [AF Mode] is set to (Face Detection), the Face Detection function continues to operate, but the focus is adjusted to the place where you touched.



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· When [AF Mode] is set to (AF Tracking), the camera locks onto the subject, and it automatically continues to focus on the subject and adjusts the exposure of the subject as the subject moves. Touch the subject you want to record · The subject is recorded when the auto focus moves to the place that you touch and when the subject is brought into focus.

· To release the touch shutter function Touch · Press the shutter button halfway to bring the subject into focus, and then press the button fully to record the subject · To release the touch AF/AE function Touch · Motion pictures cannot be recorded. The touch shutter function will not work along the edges of the screen. Please note that the touch shutter will function even if you inadvertently touch the touch When [Metering Mode] is set to panel.

(Spot), the exposure is adjusted to the place where you touched the screen. The setting of the touch shutter function will be stored even if the power switch is turned to off. The touch AF/AE function may fail to work under some recording conditions such as The touch AF/AE function will not work along the edges of the screen. During [Intelligent Auto] Mode, the camera will determine the touched subject to be the optimal scene. VQT3G94 when the subject is too small or the recording location is too dark.

24 VQT3G94 25 Taking pictures with automatic settings [Intelligent Auto] Mode Recording Mode: Optimum settings are made automatically from information such as "face", "movement", "brightness", and "distance" just by pointing the camera at the subject, meaning that clear pictures can be taken without the need to make settings manually. About flash Press to select or · is selected, the optimum flash is selected automatically depending on conditions. (S2) or is selected, the shutter speed is reduced. When Set to ([Intelligent Auto] Mode) When About Happy colours Take a picture If [Color Mode] (93) is set to [Happy], both still and motion pictures are clearer, with more vivid colouring. [Motion Deblur] Press halfway (press lightly to focus) Press fully (press the button all the way to record) Automatic Scene Detection Camera reads scene when pointed at subject, and makes optimum settings automatically. The camera automatically sets the optimum shutter speed in accordance with the movements of the subject to minimize the blur of the subject. Settings Press [MENU/SET] Press to select [Rec] menu and press [MENU/SET] Press to select [Motion Deblur] and press [MENU/SET] Press to select [ON] and press [MENU/SET] When [Motion Deblur] is set to [ON], appears on the screen. The subject may be recorded in a picture size smaller than the number of pixels that has been set. [iHandheld Nite Shot] The icon of scene detected Recognises people Recognises babies1 Recognises landscapes Recognises night scenes and people in them (Only when is selected)2 Recognises night scenes Recognises night scenes without a tripod.

3 Recognises close-ups Recognises sunsets Reads subject movement to avoid blurring when scene does not correspond to any of the above. 1 When babies (under 3 years) that are registered with the Face Recognition function are recognised 2 We recommend using a tripod and the self-timer. 3 When [iHandheld Nite Shot] is [ON] Depending on recording conditions, different scene types may be determined for the same subject. If desired scene type is not selected, we recommend manually selecting the appropriate Recording Mode. When , or is detected, Face Detection is activated, and the focus and exposure are adjusted for the recognised faces. If a night scene is detected automatically while the camera is handheld, the camera can record the still picture with less jitter and less noise by combining a burst of pictures. Settings Press [MENU/SET] Press to select [Rec] menu and press [MENU/SET] Press to select [iHandheld Nite Shot] and press [MENU/SET] Press to select [ON] and press [MENU/SET] The recordable area becomes slightly narrower. Recording Press the shutter button halfway Press the shutter button fully Do not move the camera while any messages are displayed on the screen. When the camera is fixed in place on a tripod or by other means, [iHandheld Nite Shot] will not be identified. 26 VQT3G94 VQT3G94 27 Taking pictures with automatic settings [Intelligent Auto] Mode (Continued) Recording Mode: AF Tracking This function enables the camera to continue to focus on the subject and adjust the exposure of the subject even when the subject is moving.

[Intelligent Auto] Mode restrictions Only menu items which are displayed in the [Intelligent Auto] Mode can be set. The settings selected in the [Program AE] or other modes are reflected for not The settings for the following items are different from other recording modes: displayed menu items on the [Setup] menu.

[Picture Size] and [Color Mode] on the [Rec] menu, [Burst], and [Beep] on the [Setup] menu The settings for the following functions are fixed: · [Sleep Mode]: [5 MIN.] · [Auto Review]: [2 SEC.] · [White Balance]: [AWB] · [Guide Line]: · [Quality]: (Fine) · [Sensitivity]: · [Stabilizer]: [ON] · [AF Mode]: (Face Detection) · [AF Assist Lamp]: [ON] · [Quick AF]: [ON] · [Metering Mode]: (Multiple) · [i.

Exposure]: [STANDARD] · [i.Resolution]: [i.ZOOM] · [Red-Eye Removal]: [ON] · [Active Mode]: [ON] · [Continuous AF]: [ON] (23-area-focusing) when face cannot be recognised The following functions cannot be used: [Histogram], [Exposure], [Auto Bracket], [WB Adjust.], [Digital Zoom], [Min. Shtr Speed] With cursor button operations Press to set [AF Mode] to AF Tracking · To cancel AF Tracking Press again.

Align the AF Tracking frame with the subject, and then press to lock · To cancel AF Lock Press · AF Tracking frame AF Lock successful: Yellow AF Lock failed: Red (flash) With touch panel operations Touch the subject Perform these operations with the touch shutter function (24) released. · When switching to lock on to another subject Touch the other subject. · To release AF tracking Touch · The optimal scene for the AF locked subject is automatically identified.

Face Recognition will be inactive while using AF Tracking. Under certain recording conditions, such as when the subject is small or when it is dark, [AF Tracking] may not operate correctly. 28 VQT3G94 VQT3G94 29 Taking motion pictures Recording Mode: Enables motion pictures to be recorded with (stereo) audio. Recording motion pictures in Recording motion pictures in When scene does not correspond to any on the right. Press motion picture button to start recording [Rec Mode] (96)/[Rec Quality] (97) Records a motion picture at your preferred settings.

· Aperture and shutter speed are automatically set.



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The camera automatically detects the scene to record motion pictures with optimal settings. · In mode, focus and exposure will be set according to the face detected. · will be selected for nightscapes and other dark scenes. · If the camera does not select your desired Scene Mode, choosing an appropriate mode manually is recommended. · The following menu options in the [Motion Picture] menu can be set: Elapsed recording time Remaining recording time (approx.) · [Rec Mode] · [Rec Quality] Motion picture recording in other recording modes Immediately release the motion picture You can also use zoom while recording button after pressing it. motion pictures. · The zoom speed will be slower than normal. · When using zoom while recording motion pictures, it may take some time to focus.

Still pictures can be taken during motion picture recording. (99) For details, refer to the pages relating to the respective recording modes. (However, a motion picture cannot be recorded in [3D Photo Mode] mode) Motion pictures can be recorded continuously for up to 29 minutes 59 seconds. If [Rec Quality] is set to [GFS] or [FSH], and if the surrounding temperature Press the motion picture button again to end recording is high, or motion picture is recorded continuously, is displayed, and the recording may be stopped halfway through. If data is repeatedly recorded and deleted, the total available recording time on the SD card may be reduced.

To restore the original capacity, use the camera to format the SD card. Be sure to save all important data to your computer or other media before formatting, as all data saved to the card will be erased. The Optical Image Stabilizer functions regardless of the settings before a motion picture is recorded. The following functions are not available: AF tracking, Extra Optical Zoom, flash, [Face Recog.], [Rotate Disp.

] for pictures taken vertically. For certain memory cards, recording may end while in progress. The screen can become narrower in motion pictures compared to still pictures. Also, if the Aspect Ratio is different for still pictures and motion pictures, the angle of view will change when starting to record a motion picture. The recordable area is displayed by setting [Rec Area] (44) to [ON]. If Extra Optical Zoom was used before pressing the motion picture button, these settings will be cleared, and the recordable area will be larger. Depending on the environment when recording motion pictures, the screen may turn black for an instant or noise may be recorded because of static electricity, electromagnetic waves, etc. When recording motion pictures using an AC adaptor, if you unplug the AC adaptor or a power outage occurs, power to the camera is cut, and the motion picture in progress will not be recorded. VQT3G94 30 VQT3G94 31 Viewing your pictures [Normal Play] Playback Mode: When a card is in the camera, pictures are played back from the card, and without a card, pictures are played back from the built-in memory. Viewing motion pictures Select a picture with the motion picture icon, and press Playback now starts.

Drag your finger across the screen, and select the picture to be played back Scrolling to the next picture: Drag your finger across the screen from right to left. Returning to the previous picture: Drag your finger across the screen from left to right. · If you keep your finger touching the left or right edge of the screen after scrolling the pictures, the pictures will continue to be scrolled. (The pictures are displayed in a reduced size.) · The pictures can also be scrolled by pressing the cursor button. When the buttons are held down, the pictures can be scrolled quickly forward or backward. Motion picture recording time When playback starts, the elapsed playback time is displayed in the top right of the screen. Example: After 10 minutes and 30 seconds: [10m30s] Motion picture icon (differs depending on the recording mode and picture quality setting) Operations during motion picture playback View pictures Picture number/Total pictures Location name information and latitude & longitude information are provided Folder/File number : Pause/play : Stop : Fast rewind (2 steps) Single-frame rewind (while paused) : Fast forward (2 steps) Single-frame forward (while paused) · If is pressed during fast forward or rewind, it will return to normal playback speed. · Volume can be adjusted with zoom lever. Changing recording information display Press the [DISP.

] button. Some pictures edited on a computer may not be able to be viewed on this camera. If the REC/PLAY switch is moved from to while the power is on, the lens barrel This camera is compliant with the unified DCF (Design rule for Camera File system) will be retracted after approx. 15 seconds. standard formulated by the Japan Electronics and Information Technology Industries Association (JEITA), and with Exif (Exchangeable image file format).

Files that are not DCF-compliant cannot be played back. VQT3G94 It may not be possible to play back properly the motion pictures recorded using other Some information will not be displayed for motion pictures recorded in [AVCHD] . Motion pictures can be viewed on your computer using "PHOTOfunSTUDIO" on the supplied CD-ROM or "QuickTime". VQT3G94 cameras. 32 33 Viewing your pictures [Normal Play] (Continued) Playback Mode: Zooming in and viewing "Playback Zoom" Touch the area that you want to magnify Each time you touch, the magnification increases through four levels after 1x, 2x, 4x, 8x, and 16x.

(The picture quality displayed becomes successively lower.) · The area can also be magnified by turning the zoom lever toward T. Viewing pictures by their recording date "Calendar Playback" Turn the zoom lever toward W several times Touch the recording date to be displayed, and touch [Set] to enter the date Select the month Drag your finger over the screen to move the position of the area magnified Current zoom position Return to the original size (1x) Reducing the display magnification rate · The magnification rate can also be reduced by turning the zoom lever toward W. · The position of the area magnified can also be moved by operating the cursor button. The pictures recorded on the selected date appear on the 12-picture screen. · The recording date can also be selected by using the cursor button, and press [MENU/SET]. Only months when pictures were taken are shown on the calendar screen. Pictures Pictures displayed with [!] cannot be played back. Pictures taken with destination settings made in [World Time] are displayed in the calendar screen using the appropriate date for the destination's time zone. taken without clock settings are displayed with the date 1st January, 2011.

Playback zoom cannot be used during motion picture playback.



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Viewing a list of pictures "Multi Playback" Set to multiple screen display Picture no./Total no. Slide bar (drag this to change display) · When the zoom lever is repetitively turned to W, the display method changes from a 12-picture screen to a 30-picture screen, and to Calendar Playback. (Turn the zoom lever toward to T to return.) · When a picture is touched on the 12-picture or 30-picture screen, the picture touched is displayed on the 1-picture screen (full-screen). 34 VQT3G94 VQT3G94 35 Deleting pictures Playback Mode: Pictures will be deleted from the card if the card is inserted, or from the built-in memory if the card is not inserted. (Deleted pictures cannot be recovered.) To delete multiple (up to 100)/To delete all pictures A burst group is handled as one picture. (All the pictures in the selected burst group are deleted.

) Press to delete displayed picture (after step) Use cursor button to select [Delete Multi]/[Delete All] and press [MENU/SET] · A confirmation screen is displayed. Select [Yes] with cursor button and then press [MENU/SET]. [Delete Multi] [DISP.] button Use cursor button to select picture and press [DISP.] button · To cancel Press [DISP.]

] button again. · To execute Press [MENU/SET]. Picture selected · You can select [All Delete Except] in [Delete All] if there are pictures that have been set as [Favorite] (112). · A confirmation screen is displayed. Select [Yes] with cursor button and then press [MENU/SET].

· May take time depending on number of pictures deleted. Do not turn off the power during deletion. Use a sufficiently charged battery or an AC adaptor (optional) and DC coupler (optional). Pictures cannot be deleted in the following cases: · Protected pictures · Card switch is in "LOCK" position. · Pictures not of DCF standard (32) VQT3G94 36 VQT3G94 37 Setting the menu About the menu screen Menu operation flow Displaying the menu screen Refer to the procedure example below when operating menus. Example: Changing [AF Mode] in the [Rec] menu in [Program AE] Mode Press [MENU/SET] The menu selection screen is displayed. Selecting the menu type Select [Rec] menu and press [MENU/SET] · The menu type can also be selected by touch operations. Select the item Buttons used in menu operations : [MENU/SET] : Cursor button : [/] button Menu screen configuration : Menu description : Menu items : Operation guide Press to select [AF Mode] and press [MENU/SET] : Pages The pages can also be selected with the zoom lever. Changing the settings Press to select a setting, and then press [MENU/SET] The selected setting is set. · To cancel Press [/] button.

: Settings : Selected setting Exiting the menu screen Press [/] button several times The menu closes and the monitor returns to the previous screen. The operation screen examples in this manual may differ from the actual screen display The menu types and items that are displayed vary according to the mode. The setting methods vary depending on the menu item. In Recording Mode, the menu screen can also be exited by pressing the shutter button halfway. or some parts of the screen display are omitted. 38 VQT3G94 VQT3G94 39 Setting the menu (Continued) Menu type [Rec] menu (REC/PLAY switch:) Changing picture preferences (85) · Displays settings such as White Balance, Sensitivity, Aspect Ratio, and Picture Size. Using Quick menu During recording, you can easily call some of the menu items and set them. Press [Q.MENU] button ([/] button) Press to select a menu item) Recording motion pictures using your own settings (96) · You can select the picture quality, data format (recording mode) and other settings. [Motion Picture] menu (REC/PLAY switch: Press to select the settings Press [MENU/SET] [GPS] menu (REC/PLAY switch:) Using the GPS function (75) · You can select the GPS setting, location name display and other settings.

[Setup] menu (REC/PLAY switch:) Making the camera more convenient to use (42) · Displays settings for ease of use such as adjusting the clock and changing the beep sounds. [Playback Mode] menu (REC/PLAY switch:) Viewing recorded pictures (102) · Choose a playback mode to see Slide Shows or to narrow down the pictures for display, etc. [Playback] menu (REC/PLAY switch:) Using your pictures (105) · Enables you to specify picture protection, resizing, and other settings for pictures you have taken. The following menu is also displayed depending on the recording mode. · In the Scene Mode: Scene menu (61) · In the custom mode: Custom menu (60) VQT3G94 The menu items and setting items that are displayed differ depending on the recording mode.

VQT3G94 40 41 Using the [Setup] menu [Clock Set], [Economy] and [Auto Review] are important for clock setting and battery life. Please check these before use. Item [Clock Set] (18) [Auto Clock Set] Setting the clock automatically using GPS. (81) [World Time] Set the local time at travel destination. (83) [Travel Date] Record the number of days elapsed in your travels.

(82) [Beep] Change or mute the beep/shutter sounds. [Destination]: Set the local time at travel destination. [Home]: Set date and time at home area. [Travel Setup] [SET] (Register departure and return dates)/[OFF] [Location] [SET] (Input name of location)/[OFF] [Beep Level] / / / / / / / / : Low/High/Mute : Change beep tone. : Low/High/Mute : Change shutter tone. [Beep Tone] [Shutter Vol.] [Shutter Tone] [ON]/[OFF] Settings, notes Set time, date, and display format. For details about the setting procedure in the [Setup] menu (38) Item [Volume] Adjust volume of sound from speakers (7 levels). [Cust.Set Mem.

] Register settings on current camera. (60) [LCD Mode] Make LCD monitor easier to see. Settings, notes [0] / [1] / [2] / [3] / [4] / [5] / [6] · Cannot be used to adjust TV speaker volume when connected to TV. [C1] / [C2] / [C3] [Auto Power LCD]: The brightness is adjusted automatically depending on how bright it is around the camera. [Power LCD]: Makes screen brighter than normal (for outdoor use). [OFF] · [Auto Power LCD] does not work in Playback Mode. · [Power LCD] returns to ordinary brightness if there is no operation for 30 seconds when recording. (Press any button to make brighter again.) · Because the picture shown on the LCD monitor screen emphasizes brightness, some subjects may look different than their actual appearance, but this will not affect the recorded picture. · Setting [LCD Mode] will reduce the number of pictures that can be recorded and recording time.

[Guide Line] Select recording information display and types of guidelines. [Rec. Info.] [ON] (Display recording information with guide lines.) [OFF] [Pattern] / : Change the patterns of guide lines.



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· When [Intelligent Auto] Mode has been selected, only is displayed. Also recording information and guidelines cannot be displayed simultaneously. 42 VQT3G94 VQT3G94 43 Using the [Setup] menu (Continued) Item [Histogram] Check brightness in picture on graph. Settings, notes [ON]/[OFF] (Example) A peak in the centre represents correct brightness (correct exposure). This can be used as a reference for Dark OK Bright exposure correction, etc. · Histogram from time of recording is different to Histogram in playback and displayed in orange, when recording with flash or in dark locations. Also, Histogram may differ from Histograms made with image editing software. · Not displayed during ([Intelligent Auto] Mode), [Photo Frame] or Playback Zoom. [ON]/[OFF] · Recordable area displayed for motion pictures should be interpreted as a Guideline. · When using Extra Optical Zoom, the recordable area may not always be displayed for certain zoom ratios. · This setting cannot be used with [Intelligent Auto] Mode. [ON]/[OFF] · Cannot be set when using [Self Portrait] Scene Mode. For details about the setting procedure in the [Setup] menu (38) Item [Economy] Turn off the power or make the LCD monitor go dark while not using the camera to minimize battery consumption. [Sleep Mode] Settings, notes [2 MIN.]/[5 MIN.

]/[10 MIN.]/[OFF]: Automatically shut off power while not in use. · To restore Press the shutter button halfway, or turn on the power again. · Cannot be used in the following cases: When using AC adaptor (optional) and DC coupler (optional), when connected to computer/printer, during motion picture recording/playback, during Slide Shows, during automatic demo playback · Settings fixed to [5 MIN.] in [Intelligent Auto] Mode. [LCD Power Save] [ON]/[OFF]: The LCD monitor goes dark to minimize power consumption. · Reduces the picture quality of the LCD monitor display during recording to minimize battery consumption (except for the Digital Zoom area). Note, however, that there is no effect on the recorded picture. · The setting in [LCD Mode] is prioritised over the setting in [LCD Power Save] for the brightness of the LCD monitor. [Rec Area] Enables verification of the recordable area for a motion picture before recording.

[Zoom Resume] Remember the zoom position when turning the power off. [Auto Review] Automatically display still pictures immediately after taking them. [1 SEC.]/[2 SEC.]/[HOLD]: Auto review screen remains until a button (other than the [DISP.

] button) is pressed [OFF] · Fixed to [2 SEC.] in [Intelligent Auto] Mode. · In [Panorama Assist], [Handheld Night Shot], [Flash Burst], and [Photo Frame] Scene Modes, or in [Auto Bracket], and [Burst] Mode, Auto Review performed regardless of setting. · Motion pictures cannot be automatically reviewed. 44 VQT3G94 VQT3G94 45 Using the [Setup] menu (Continued) Item [No.

Reset] Reset picture file numbers. Settings, notes · The folder number is updated and the file number starts from 0001. · A folder number between 100 and 999 can be assigned. Numbers cannot be reset once folder number reaches 999. In this case, save all necessary pictures to your computer, and format the built-in memory/card (48). · To reset folder number to 100: First, format the built-in memory or card, and reset the file numbers using [No.Reset]. Then, select [Yes] on the folder number reset screen. [Reset Rec. settings?]/[Reset setup parameters?] · Information registered in [Face Recog.

] is reset if recording settings are reset. · Resetting the setup parameters will also reset the following. Age in years/months and names in [Baby] and [Pet] Scene Modes, [GPS] menu · Folder numbers and clock settings will not be reset. · Camera movement may be audible as the lens function is reset. This is not a fault. [Select on connection]: Select [PC] or [PictBridge (PTP)] each time you connect to a computer or PictBridge-compatible printer. [PictBridge (PTP)]: Select when connecting to a PictBridge-compatible printer. [PC]: Select when connecting to a computer. For details about the setting procedure in the [Setup] menu (38) Item [Output] Change the settings to be used when the camera is connected to a TV or other device. [Video Out] [NTSC]/[PAL] Settings, notes If the default setting is changed, AVCHD motion pictures may not be played correctly.

[TV Aspect] (Operates when AV cable is connected.) / [Reset] Reset to the default settings. [VIERA Link] Enable automatic linking with other VIERA Linkcompatible devices, and operability with a VIERA remote control when connecting via an HDMI mini cable (optional) (116). [3D Playback] Set how 3D still picture is output. [ON]: Operations may be performed via the remote control of the VIERA Link-compatible device.

(Not all operations will be available.) Operability of the camera's own buttons will be limited. [OFF]: Operations must be performed via the camera's own buttons. [3D]/[2D] · If you want to play back a picture in 2D (conventional picture) on a 3D television, set to [2D]. · This item of the menu functions when an HDMI mini cable (optional) is connected.

· For the procedure for playing back a 3D still picture (119). [USB Mode] Select communication method for when connecting camera to a computer or printer with USB connection cable. 46 VQT3G94 VQT3G94 47 Using the [Setup] menu (Continued) Item [Rotate Disp.] Automatically rotate portrait still pictures. Settings, notes : Rotate Display is turned on. : Rotate Display is turned on for TV output only. [OFF] · [Rotate Disp.] cannot be used with motion pictures. · Some pictures taken facing up or facing down may not be rotated automatically. · Pictures cannot be rotated during Multi Playback.

· Will only be displayed rotated on computer if in Exifcompatible (32) environment (OS, software). [Version Disp.] Check the version of the camera firmware. [Format] Use when [Built-In Memory Error] or [Memory Card Error] appears, or when formatting the built-in memory or card. When a card/built-in memory is formatted, the data cannot be restored. Check the content of the card/ built-in memory carefully before formatting. · This requires a sufficiently charged battery, or an AC adaptor (optional) and DC coupler (optional). When formatting the built-in memory, remove the cards. (Only inserted card will be formatted if present; built-in memory will be formatted if no card is inserted.) · Always format cards with this camera.

· All protected pictures and other picture data will be deleted. · Do not turn off power or perform other operations during formatting. · Formatting the built-in memory may take several minutes. · Consult the dealer or your nearest Service Centre if format cannot be successfully completed. Current version is displayed.



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For details about the setting procedure in the [Setup] menu (38) Item [Calibration] Perform these adjustments if something different from what was touched has been selected or if the camera did not respond when it was touched. [Language] Change display language. [Demo Mode] View demonstration of functions. Settings, notes Press [MENU/SET]. Touch [+], which is displayed on the screen (in 5 places) in sequence using the stylus pen (supplied). Press [MENU/SET]. · If the proper positions were not touched, the touch panel adjustments will not be performed. Touch the [+], places again. Set the language displayed on the screen. [Stabilizer Demo.] Extent of jitter is shown on graph (estimate) Extent of jitter Extent of jitter after correction · During demo screen display, the Optical Image Stabilizer switches ON and OFF every time [MENU/SET] is pressed. · Cannot display during Playback Mode. [Auto Demo]: View introductory Slide Show [ON]/[OFF] · [Auto Demo] cannot be displayed on external devices such as TVs. 48 VQT3G94 VQT3G94 49 Taking pictures with zoom Recording Mode: You can zoom in up to 16 times with "Optical Zoom", and up to 33.8 times with "Extra Optical Zoom" (pictures only) with lower picture quality.

To zoom further, you can use [i.ZOOM] or [Digital Zoom]. Zoom types and use The zoom ratio changes when the number of recording pixels is changed. Zoom In/Out Capture a wider area (wide-angle) Enlarge the subject (telephoto) Zoom bar Focus range Optical Zoom Zooming in up to 16 times is possible if pictures without [Picture Size] on the [Rec] menu. (85) have been selected by Extra Optical Zoom Zoom ratio · The zoom speed can be set to one of 2 levels using the angle at which the zoom lever is turned. 1 Zooming in up to 33.8 times is possible when pictures with have been selected by [Picture Size] on the [Rec] menu (85). EZ is short for "Extra Optical Zoom." Extra Optical Zoom cannot be used in the following cases: · [Intelligent Auto] Mode (when [Motion Deblur] is [ON]) · [Macro Zoom] · Motion picture · When the [Burst] setting is set to or · [Transform], [High Sens.], [Flash Burst], [Pin Hole], [Photo Frame] and [High Speed Movie] Scene Modes Using the zoom by performing touch operations Touch The zoom lever appears on the screen. To increase the zoom ratio further, the following zoom can be used in combination. i.Zoom Touch the T or W edge of the zoom lever on the screen Fast zooming all the way to the T end 1, 2 Fast zooming 1 Fast zooming all the way to the W end 1, 2 Slow zooming Digital Zoom The camera uses super resolution technology to increase the zoom ratio. Using super resolution technology, the zoom ratio can be increased up to about 1.3 times higher than the original zoom ratio with almost no deterioration of picture quality.

(92) When [i.Resolution] is set to [i.ZOOM], super resolution technology is applied to the picture. The i.Zoom functions in the following cases. · [Intelligent Auto] Mode (except when [Motion Deblur] is [ON]) · Scene Modes (except for [Handheld Night Shot], [High Sens.], [Flash Burst], [Pin Hole]) The [i.ZOOM] does not function when [Burst] is set (when or is set). Zoom 4 times further than Optical/Extra Optical Zoom. Note that, with Digital Zoom, enlarging will decrease picture quality. Set the [Digital Zoom] in the [Rec] menu to [ON]. (92) Digital Zoom cannot be used in the following modes: · [Intelligent Auto] Mode · When the [Burst] setting is set to or · Scene Modes ([Transform], [Handheld Night Shot], [High Sens.], [Flash Burst], [Pin Hole], [Film Grain], [Photo Frame] and [High Speed Movie]) 1 The zoom speed does not change during motion picture recording. 2 When or is touched again while zooming, zooming will stop. Adjust the focus after adjusting the zoom.

Do not touch the lens barrel during zooming. The zoom ratio and the zoom bar displayed on the screen are estimates. The camera may make a rattling noise and vibrate when the zoom lever is operated this is not a fault. VQT3G94 VQT3G94 50 51 Taking pictures with flash Recording Mode: Press to display [Flash] Use cursor button to select the desired type and press [MENU/ SET] Type, operations Uses [Auto] Normal use · Automatically judges whether or not to flash [Auto/Red-Eye] 1 Taking pictures of subjects in dark · Automatically judges whether or not to flash places (reduce red-eye) [Forced Flash On] · Always flash Taking pictures with backlight or under bright lighting (e.g. fluorescent) [Forced On/Red-Eye] 1 · Always flash (reduce red-eye) 1 [Slow Sync./Red-Eye] Taking pictures of subjects against a · Automatically judges whether or not to flash nightscape (tripod recommended) (reduce red-eye; slow shutter speed to take brighter pictures) [Forced Flash Off] Places where flash use is prohibited · Never flash 1 Two flashes will be emitted. Do not move until after the second flash. Interval between flashes varies according to brightness of subject. If [Red-Eye Removal] on the [Rec] menu is [ON], the appears with the flash icon, red-eye is automatically detected and still picture data is corrected.

(Only when [AF Mode] is (Face Detection)) The available flash range when [Sensitivity] setting is [AUTO] Max. W Max. T Approx. 0.6 m-5.0 m (1.97 feet-16.4 feet) Approx. 1.0 m-2.8 m

8 m (3.28 feet-9.18 feet) Shutter speeds are as follows: Available types in each mode (: Available, : Not available, 2 : Default setting) · , , , : 1/603 - 1/4000th · , : 13,4 - 1/4000th 3 Varies according to [Min. Shtr Speed] setting. 4 When [Min. Shtr Speed] is set to [AUTO], and a jitter is detected when [Stabilizer] is turned to [ON], the maximum speed is 1/4 second. Also varies according to [Intelligent Auto] Mode and Scene Modes, etc.

The effect of red-eye reduction varies depending on the subject and is affected by 2 Set to , , or depending on the subject and brightness. · The flash cannot be used when recording motion pictures or 3D still pictures, Scene Modes , , , , , or . factors such as distance to the subject, whether the subject is looking at the camera during preliminary flash, and so on.

In some cases, the effect of red-eye reduction may be negligible. Do not put your hands over the light-emitting area of the flash (9) or look at it from close range (a few centimeters away). Do not use the flash at close distances to other subjects (heat/light may damage subject). Flash settings may be changed when changing Recording Mode.



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